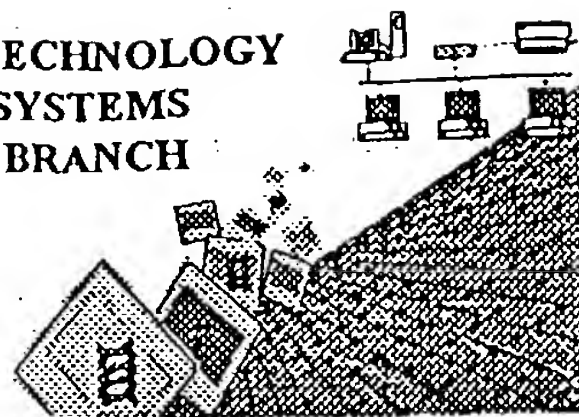


BIOTECHNOLOGY  
SYSTEMS  
BRANCH



**RAW SEQUENCE LISTING**  
**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/086,748  
Source: 1FW/b  
Date Processed by STIC: 11/10/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

**TO REDUCE ERRORRED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:**

**<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

## Raw Sequence Listing Error Summary

<u>ERROR DETECTED</u>	<u>SUGGESTED CORRECTION</u>	SERIAL NUMBER: <u>10/086,748</u>
ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE		
1 _____ Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."	
2 _____ Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.	
3 _____ Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.	
4 _____ Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.	
5 _____ Variable Length	Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.	
6 _____ PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.	
7 _____ Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO: X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION: SEQ ID NO: X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped  Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.	
8 _____ Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000	
9 _____ Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.	
10 _____ Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence	
11 _____ Use of <220>	Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)	
12 _____ PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.	
13 _____ Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid	



IFW16

## RAW SEQUENCE LISTING

DATE: 11/10/2004

PATENT APPLICATION: US/10/086,748

TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

3 <110> APPLICANT: Wolber, Paul  
 5 <120> TITLE OF INVENTION: Calibration of Molecular Array Data  
 7 <130> FILE REFERENCE: 10020405-1  
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/086,748  
 C--> 9 <141> CURRENT FILING DATE: 2002-02-28  
 9 <160> NUMBER OF SEQ ID NOS: 29  
 11 <170> SOFTWARE: PatentIn version 3.3  
 13 <210> SEQ ID NO: 1  
 14 <211> LENGTH: 20  
 15 <212> TYPE: DNA  
 16 <213> ORGANISM: artificial sequence;  
 18 <220> FEATURE:  
 19 <223> OTHER INFORMATION: artificial sequence  
 21 <400> SEQUENCE: 1  
 22 aaaaaaaaaa aaaaaatctc  
 25 <210> SEQ ID NO: 2  
 26 <211> LENGTH: 21  
 27 <212> TYPE: DNA  
 28 <213> ORGANISM: artificial sequence;  
 30 <220> FEATURE:  
 31 <223> OTHER INFORMATION: artificial sequence  
 33 <400> SEQUENCE: 2  
 34 aaaaaaaaaa aaaaaatctc c  
 37 <210> SEQ ID NO: 3  
 38 <211> LENGTH: 22  
 39 <212> TYPE: DNA  
 40 <213> ORGANISM: artificial sequence;  
 42 <220> FEATURE:  
 43 <223> OTHER INFORMATION: artificial sequence  
 45 <400> SEQUENCE: 3  
 46 aaaaaaaaaa aaaaaatctc cc  
 49 <210> SEQ ID NO: 4  
 50 <211> LENGTH: 23  
 51 <212> TYPE: DNA  
 52 <213> ORGANISM: artificial sequence;  
 54 <220> FEATURE:  
 55 <223> OTHER INFORMATION: artificial sequence  
 57 <400> SEQUENCE: 4  
 58 aaaaaaaaaa aaaaaatctc cca  
 61 <210> SEQ ID NO: 5  
 62 <211> LENGTH: 23  
 63 <212> TYPE: DNA  
 64 <213> ORGANISM: artificial sequence;

Does Not Comply  
 Corrected Diskette Needed

insufficient explanation - give  
 source of genetic material (see item 11  
 on Error  
 summary  
 sheet)

same error

21

22

23

## RAW SEQUENCE LISTING

DATE: 11/10/2004

PATENT APPLICATION: US/10/086,748

TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

66 <220> FEATURE:  
 67 <223> OTHER INFORMATION: artificial sequence  
 69 <400> SEQUENCE: 5  
 70 aaaaaaaaaa aaaaaaatc tcc 23  
 73 <210> SEQ ID NO: 6  
 74 <211> LENGTH: 24  
 75 <212> TYPE: DNA  
 76 <213> ORGANISM: artificial sequence;  
 78 <220> FEATURE:  
 79 <223> OTHER INFORMATION: artificial sequence  
 81 <400> SEQUENCE: 6  
 82 aaaaaaaaaa aaaaaatctc ccaa 24  
 85 <210> SEQ ID NO: 7  
 86 <211> LENGTH: 24  
 87 <212> TYPE: DNA  
 88 <213> ORGANISM: artificial sequence;  
 90 <220> FEATURE:  
 91 <223> OTHER INFORMATION: artificial sequence  
 93 <400> SEQUENCE: 7  
 94 aaaaaaaaaa aaaaaaatc tccc 24  
 97 <210> SEQ ID NO: 8  
 98 <211> LENGTH: 25  
 99 <212> TYPE: DNA  
 100 <213> ORGANISM: artificial sequence;  
 102 <220> FEATURE:  
 103 <223> OTHER INFORMATION: artificial sequence  
 105 <400> SEQUENCE: 8  
 106 aaaaaaaaaa aaaaaatctc ccaaa 25  
 109 <210> SEQ ID NO: 9  
 110 <211> LENGTH: 25  
 111 <212> TYPE: DNA  
 112 <213> ORGANISM: artificial sequence;  
 114 <220> FEATURE:  
 115 <223> OTHER INFORMATION: artificial sequence  
 117 <400> SEQUENCE: 9  
 118 aaaaaaaaaa aaaaaaatc tccca 25  
 121 <210> SEQ ID NO: 10  
 122 <211> LENGTH: 26  
 123 <212> TYPE: DNA  
 124 <213> ORGANISM: artificial sequence;  
 126 <220> FEATURE:  
 127 <223> OTHER INFORMATION: artificial sequence  
 129 <400> SEQUENCE: 10  
 130 aaaaaaaaaa aaaaaatctc ccaaaa 26  
 133 <210> SEQ ID NO: 11  
 134 <211> LENGTH: 26  
 135 <212> TYPE: DNA  
 136 <213> ORGANISM: artificial sequence;  
 138 <220> FEATURE:

## RAW SEQUENCE LISTING

DATE: 11/10/2004

PATENT APPLICATION: US/10/086,748

TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

139 <223> OTHER INFORMATION: artificial sequence  
141 <400> SEQUENCE: 11  
142 aaaaaaaaaa aaaaaaatc tcccaa 26  
145 <210> SEQ ID NO: 12  
146 <211> LENGTH: 27  
147 <212> TYPE: DNA  
148 <213> ORGANISM: artificial sequence  
150 <220> FEATURE:  
151 <223> OTHER INFORMATION: artificial sequence  
153 <400> SEQUENCE: 12  
154 aaaaaaaaaa aaaaaaatc tcccaa 27  
157 <210> SEQ ID NO: 13  
158 <211> LENGTH: 27  
159 <212> TYPE: DNA  
160 <213> ORGANISM: artificial sequence  
162 <220> FEATURE:  
163 <223> OTHER INFORMATION: artificial sequence  
165 <400> SEQUENCE: 13  
166 aaaaaaaaaa aaaaaatctc ccaaaaa 27  
169 <210> SEQ ID NO: 14  
170 <211> LENGTH: 28  
171 <212> TYPE: DNA  
172 <213> ORGANISM: artificial sequence  
174 <220> FEATURE:  
175 <223> OTHER INFORMATION: artificial sequence  
177 <400> SEQUENCE: 14  
178 aaaaaaaaaa aaaaaaatc tccaaaa 28  
181 <210> SEQ ID NO: 15  
182 <211> LENGTH: 28  
183 <212> TYPE: DNA  
184 <213> ORGANISM: artificial sequence  
186 <220> FEATURE:  
187 <223> OTHER INFORMATION: artificial sequence  
189 <400> SEQUENCE: 15  
190 aaaaaaaaaa aaaaaaatc tccaaaa 28  
193 <210> SEQ ID NO: 16  
194 <211> LENGTH: 28  
195 <212> TYPE: DNA  
196 <213> ORGANISM: artificial sequence  
198 <220> FEATURE:  
199 <223> OTHER INFORMATION: artificial sequence  
201 <400> SEQUENCE: 16  
202 aaaaaaaaaa aaaaaatctc ccaaaaa 28  
205 <210> SEQ ID NO: 17  
206 <211> LENGTH: 29  
207 <212> TYPE: DNA  
208 <213> ORGANISM: artificial sequence  
210 <220> FEATURE:  
211 <223> OTHER INFORMATION: artificial sequence

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/086,748

DATE: 11/10/2004

TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

213 <400> SEQUENCE: 17  
 214 aaaaaaaaaa aaaaaaatc tcccaaaaaa 29  
 217 <210> SEQ ID NO: 18  
 218 <211> LENGTH: 29  
 219 <212> TYPE: DNA  
 220 <213> ORGANISM: artificial sequence  
 222 <220> FEATURE:  
 223 <223> OTHER INFORMATION: artificial sequence  
 225 <400> SEQUENCE: 18  
 226 aaaaaaaaaa aaaaaatctc ccaaaaaaa 29  
 229 <210> SEQ ID NO: 19  
 230 <211> LENGTH: 30  
 231 <212> TYPE: DNA  
 232 <213> ORGANISM: artificial sequence  
 234 <220> FEATURE:  
 235 <223> OTHER INFORMATION: artificial sequence  
 237 <400> SEQUENCE: 19  
 238 aaaaaaaaaa aaaaaaatc tcccaaaaaa 30  
 241 <210> SEQ ID NO: 20  
 242 <211> LENGTH: 30  
 243 <212> TYPE: DNA  
 244 <213> ORGANISM: artificial sequence  
 246 <220> FEATURE:  
 247 <223> OTHER INFORMATION: artificial sequence  
 249 <400> SEQUENCE: 20  
 250 aaaaaaaaaa aaaaaatctc ccaaaaaaa 30  
 253 <210> SEQ ID NO: 21  
 254 <211> LENGTH: 31  
 255 <212> TYPE: DNA  
 C--> 256 <213> ORGANISM: ?artificial sequence;  
 W--> 258 <220> FEATURE:  
 W--> 258 <223> OTHER INFORMATION:  
 W--> 258 <400> 21  
 259 aaaaaaaaaa aaaaaaatc tcccaaaaaa a 31  
 262 <210> SEQ ID NO: 22  
 263 <211> LENGTH: 31  
 264 <212> TYPE: DNA  
 265 <213> ORGANISM: artificial sequence  
 267 <220> FEATURE:  
 268 <223> OTHER INFORMATION: artificial sequence  
 270 <400> SEQUENCE: 22  
 271 aaaaaaaaaa aaaaaatctc ccaaaaaaa a 31  
 274 <210> SEQ ID NO: 23  
 275 <211> LENGTH: 32  
 276 <212> TYPE: DNA  
 277 <213> ORGANISM: artificial sequence  
 279 <220> FEATURE:  
 280 <223> OTHER INFORMATION: artificial sequence  
 282 <400> SEQUENCE: 23

Artificial Sequence

mandatory numeric identifier  
 needed. see p. 6



## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/086,748

DATE: 11/10/2004

TIME: 16:29:47

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

```

283 aaaaaaaaaa aaaaaaatc tccccaaaaa aa          32
286 <210> SEQ ID NO: 24
287 <211> LENGTH: 32
288 <212> TYPE: DNA
289 <213> ORGANISM: artificial sequence;
291 <220> FEATURE:
292 <223> OTHER INFORMATION: artificial sequence
294 <400> SEQUENCE: 24
295 aaaaaaaaaa aaaaaatctc ccaaaaaaaa aa          32
298 <210> SEQ ID NO: 25
299 <211> LENGTH: 33
300 <212> TYPE: DNA
301 <213> ORGANISM: artificial sequence;
303 <220> FEATURE:
304 <223> OTHER INFORMATION: artificial sequence
306 <400> SEQUENCE: 25
307 aaaaaaaaaa aaaaaaatc tccccaaaaa aaa          33
310 <210> SEQ ID NO: 26
311 <211> LENGTH: 33
312 <212> TYPE: DNA
313 <213> ORGANISM: artificial sequence;
315 <220> FEATURE:
316 <223> OTHER INFORMATION: artificial sequence
318 <400> SEQUENCE: 26
319 aaaaaaaaaa aaaaaatctc ccaaaaaaaa aaa          33
322 <210> SEQ ID NO: 27
323 <211> LENGTH: 34
324 <212> TYPE: DNA
325 <213> ORGANISM: artificial sequence;
327 <220> FEATURE:
328 <223> OTHER INFORMATION: artificial sequence
330 <400> SEQUENCE: 27
331 aaaaaaaaaa aaaaaaatc tccccaaaaa aaaa          34
334 <210> SEQ ID NO: 28
335 <211> LENGTH: 35
336 <212> TYPE: DNA
337 <213> ORGANISM: artificial sequence;
339 <220> FEATURE:
340 <223> OTHER INFORMATION: artificial sequence
342 <400> SEQUENCE: 28
343 aaaaaaaaaa aaaaaaatc tccccaaaaa aaaaa          35
346 <210> SEQ ID NO: 29
347 <211> LENGTH: 60
348 <212> TYPE: DNA
349 <213> ORGANISM: artificial sequence;
351 <220> FEATURE:
352 <223> OTHER INFORMATION: artificial sequence
354 <400> SEQUENCE: 29
355 ttgattcttt ttaataaac tactctttga tttaaaaaa aaaaaaaaaa aaaaaaaaaa          60

```

10/086,748 6

<210> SEQ ID NO 21

<211> LENGTH: 31

<212> TYPE: DNA

<213> ORGANISM: Artificial Sequence

<220> FEATURE:

<223> OTHER INFORMATION: :

<400> SEQUENCE: 21

aaaaaaaaaa aaaaaaatc tcccaaaaaa a

*see p. 7 for explanation*

31



RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/086,748

DATE: 11/10/2004  
TIME: 16:29:48

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt  
Output Set: N:\CRF4\11102004\J086748.raw

*no explanation*

Use of <220> Feature(NEW RULES):

Sequence(s) are missing the <220> Feature and associated headings.

Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence" or "Unknown". Please explain source of genetic material in <220> to <223> section (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp.29631-32) (Sec.1.823 of new Rules)

Seq#:21

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/086,748

DATE: 11/10/2004

TIME: 16:29:48

Input Set : D:\10020405-1 SEQ LIST.ST25-2.txt

Output Set: N:\CRF4\11102004\J086748.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No  
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:256 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:21  
L:258 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ#:21, <213>  
ORGANISM:Artificial Sequence  
L:258 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:21, <213>  
ORGANISM:Artificial Sequence  
L:258 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:21,Line#:258